



Fuel Management with AIC fuel flow meters



Made in Switzerland since 1978

Our History

AIC Systems is a world leader in development and manufacturing of fuel flow consumption solutions for automotive industry.

Since more than 40 years we've been providing all major OEM of trucks, buses, agriculture and constructing machines, boats, diesel engines with reliable, simple to install solutions.

In 1978, AIC Systems based in Switzerland introduced the "Direct Measurement" concept for most accurately measuring the engine fuel consumption. The new real driving emissions (RDE) specifications like the EU regulation 2019/318 require an evolutionary leap in internal combustion engines. To meet today's and tomorrow's CO2 emissions and reduce the NOx emission limits requires a new generation of powertrains with a holistic approach and significantly enhanced functionality. The "all-in-one" AIC Veritas fuel flow meters meet those new requirements.

Above all, AIC fuel flow meters are specially dedicated for mobile applications on trucks, buses, construction machines, large and medium long haul trucks, farming equipment and ships.

Today our systems are used worldwide for testing and improving fuel efficiency of engines, trucks, machines and all kinds of mobile and stationary assets.

Our quality

- Simple to install, no special services necessary
- Reliable, accurate and certified measurement
- Fuel consumption measurement with accuracy better than 1%
- Rugged design for lasting and reliable measurement
- One instrument for multiple vehicles
- The average lifespan for AIC instrument is 15 years

Our Markets

Truck & Bus



Agriculture



Light vehicles



Construction & demolition



Forestry & landscaping



Fleet mgt & Testing



Stationary & generator



Marine



Our Applications



Mobile testing applications

For decades, the automobile industry and its suppliers have been using AIC flow meters for development of engines and other products such as tires, transmissions, lubricants, aerodynamics...

One flowmeter can be used on multiple vehicles.



Permanent Mount

AIC Systems has developed a know-how for daily usage application.

For the transportation industry, AIC flow meters provide an accurate fuel consumption control. The AIC-900 and AIC-4000 burn rate meters are designed for permanent vehicle mount.

Products Line Mobile Testing

Mobile Testing Typical Installation

AIC 7000 NEMO



BC 3329 NEMO



- Integrated temperature probe
- Instantaneous mass flow indication
- Real time CO2 exhaustion
- Works on all engines up to 1000HP
- Accuracy better than +/- 1 % over the range
- Repeatability better than +/- 0.2 %
- NPN open collector, up to 10 mA / 32 VDC
- 804/2000 pulses per liter



Products Line Permanent Installation

Mobile Testing Typical Installation

AIC 4000 VERITAS®



BC 3329 NEMO



- Proven volumetric mechanical meter
- «All-in-one» product designed for permanent installation on vehicle s chassis
- Suitable for all fuels
- Works on all engines up to 900HP
- Accuracy better than +/- 1 % over the range
- Repeatability better than +/- 0.2 %
- Up to 2000 ppl configurations



Data Acquisition

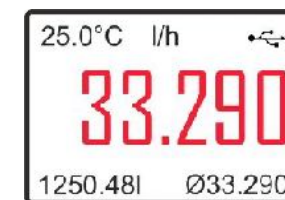
Board computer BC3329



Device Settings	
Language	EN
Code	Off
Backlight	80%
Units	metric
Display	volume

Measure Settings	
PPL	2000
PPkm	1000
LAP	On
Density [kg/m3]	600.0
CO2 [kg/l]	2.650

- View instantaneous fuel consumption
- Average fuel consumption (3 decimals)
- Fuel consumption accumulation
- Most intuitive logging functionality via USB drive
- Reading in Metric or US units
- Easy control with start, stop logs and reset functions
- Languages: English, German, French, Spanish and Portuguese



All data in one log file

Time	Temp	Flow	CO2	Pressure	Speed	Accel	Brake	Clutch	Throttle
00:00:00	25.0	0.0	0.0	1013.25	0.0	0.0	0.0	0.0	0.0
00:00:01	25.0	33.290	1250.48	1013.25	0.0	0.0	0.0	0.0	0.0
00:00:02	25.0	33.290	1250.48	1013.25	0.0	0.0	0.0	0.0	0.0

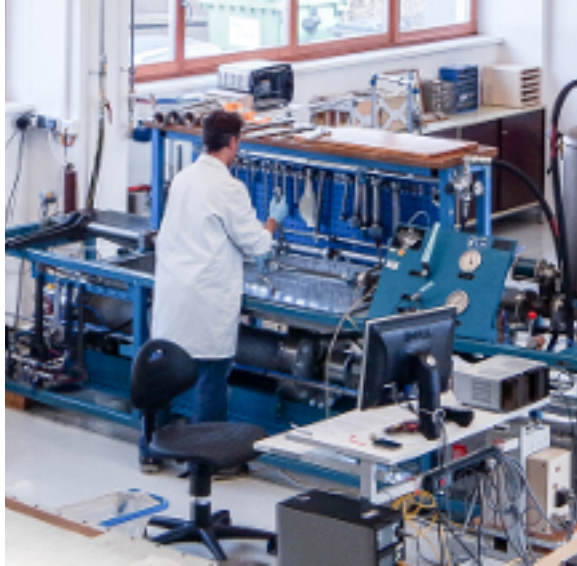
AIC Press Ride

THE NEW AIC all-in-one solution to optimise your press test performances.

Find out more at www.flowmeter-aic.com

Our Services

Calibration



ACCURACY of DATA is an essential feature of fuel consumption measurement. To be able to provide the most ACCURATE and RELIABLE DATA, all measuring instruments need to be regularly checked and recalibrated.

Every device that comes back to AIC is thoroughly checked to make sure that each component is up to standards.

Calibration services:

- *In-house Calibration* - we recalibrate your devices in house on our calibration rig to make sure they perform as new. Once the calibration is done, we issue a calibration certificate for each device in order to have your calibration update.
- *ISO Calibration* - we can provide you with an ISO calibration if required by your organisation.

Rental



AIC Rental gives you the flexibility your job requires with the Swiss performance and productivity you do expect. With just a call away, no matter how much you need, how soon or how long you need it.

By working together, we will design a solution that helps you to grow your business while controlling risks and costs.

The advantages of choosing AIC Rental equipment:

- Rental equipment from AIC is built to stand up to challenging job sites and work environments, and everything is tested and maintained to meet strict quality standards.
- You will get the latest productivity and safety technologies with options for state-of-the-art equipment monitoring and innovative automated controls.

Our Customers



All major players of the world auto industry are using AIC fuel flow meters in their R&D centres. For example:

Fuel additive studies

Fuel efficient tire testing

Testing and validating engine ECU (ECM)



IVECO



Mercedes-Benz



RENAULT



Trucks, buses, agriculture, marine, construction and demolition, rail, tire, engines manufacturer are using AIC fuel flow meters for more than 40 years:

DAIMLER
IVECO
CNH
KISTLER
JK TYRE
MAHA

VOLVO
MAN
NAVISTAR
FORD
BMC
ZF

RENAULT
DAF
CUMMINS
MAHINDRA
JOHN DEERE
MUSTANG

SCANIA
LIEBHERR
CATERPILLAR
ASHOK
CLAAS
PELTON

*Please contact us!
We will be happy to help!*



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